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9	BRS	L10	0	2 and 8	USPA T	2004/03/1 9 09:49			0
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Francesco Bergadano , Daniele Gunetti , Claudia Picardi
ACM Transactions on Information and System Security (TISSEC) November 2002
 Volume 5 Issue 4
 Unlike other access control systems based on biometric features, keystroke analysis has not led to techniques providing an acceptable level of accuracy. The reason is probably the intrinsic variability of typing dynamics, versus other---very stable---biometric characteristics, such as face or fingerprint patterns. In this paper we present an original measure for keystroke dynamics that limits the instability of this biometric feature. We have tested our approach on 154 individuals, achieving a F ...
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Dan Fasulo , Tao Jiang , Richard M. Karp , Nitin Sharma
Proceedings of the second annual international conference on Computational molecular biology March 1998
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 fingerprinting


Saul Schleimer , Daniel S. Wilkerson , Alex Aiken
Proceedings of the 2003 ACM SIGMOD international conference on on Management of data June 2003
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 **ACM Computing Surveys (CSUR)** January 1974
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 Marco Pellegrini
Proceedings of the fifteenth annual symposium on Computational geometry June 1999

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 detection: signature reliability in a dynamic retrieval environment

Jack G. Conrad , Xi S. Guo , Cindy P. Schriber

Proceedings of the twelfth international conference on Information and knowledge management November 2003

As online document collections continue to expand, both on the Web and in proprietary environments, the need for duplicate detection becomes more critical. Few users wish to retrieve search results consisting of sets of duplicate documents, whether identical duplicates or close matches. Our goal in this work is to investigate the phenomenon and determine one or more approaches that minimize its impact on search results. Recent work has focused on using some form of signature to characterize a do ...

7 The greedy path-merging algorithm for contig scaffolding 77%


 Daniel H. Huson , Knut Reinert , Eugene W. Myers

Journal of the ACM (JACM) September 2002

Volume 49 Issue 5

Given a collection of contigs and mate-pairs. The *Contig Scaffolding Problem* is to order and orientate the given contigs in a manner that is consistent with as many mate-pairs as possible. This paper describes an efficient heuristic called the *greedy-path merging algorithm* for solving this problem. The method was originally developed as a key component of the *compartmentalized assembly* strategy developed at Celera Genomics. This interim approach was used at an early stage of ...

8 A survey of graph layout problems 77%


 Josep Díaz , Jordi Petit , Maria Serna

ACM Computing Surveys (CSUR) September 2002

Volume 34 Issue 3

Graph layout problems are a particular class of combinatorial optimization problems whose goal is to find a linear layout of an input graph in such way that a certain objective cost is optimized. This survey considers their motivation, complexity, approximation properties, upper and lower bounds, heuristics and probabilistic analysis on random graphs. The result is a complete view of the current state of the art with respect to layout problems from an algorithmic point of view.

9 Computational Approaches to Image Understanding 77%

 Michael Brady

ACM Computing Surveys (CSUR) January 1982

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10 Progress in Picture Processing: 1969--71 77%

 Azriel Rosenfeld

ACM Computing Surveys (CSUR) June 1973

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11 Copyright protection of designs based on multi source IPs 77%

Edoardo Charbon , Ilhami Torunoglu

Proceedings of the 1999 IEEE/ACM international conference on Computer-aided design November 1999

This paper addresses the copyright protection problem of integrated circuits designed with blocks which are originated from multiple design sources. The process consists of two phases. First, a compact signature is generated from every block independently and made public. Utilizing such signatures, a design can be decomposed into its original building blocks, regardless of multiple hierarchies. Then, a map of all the blocks can be built, thus allowing to reconstruct the original copyright d ...

12 Modeling protein families using probabilistic suffix trees 77%

Gill Bejerano , Golan Yona

Proceedings of the third annual international conference on Computational molecular biology April 1999**13 A user interface using fingerprint recognition: holding commands and** 77%

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Atsushi Sugiura , Yoshiyuki Koseki

Proceedings of the 11th annual ACM symposium on User interface software and technology November 1998**14 Illuminating light: an optical design tool with a luminous-tangible** 77%

interface

John Underkoffler , Hiroshi Ishii

Proceedings of the SIGCHI conference on Human factors in computing systems January 1998**15 Beyond islands (extended abstract): runs in clone-probe matrices** 77%

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<u>L2</u>	(biometric or fingerprint\$3 or finger-print\$3) same position\$3 same (compar\$3 or match\$3) same (person\$5 or personnel or user) same (pin\$2 or code or identification)	58	<u>L2</u>
<u>L3</u>	L2 same (verif\$9 or authenticat\$5)	21	<u>L3</u>
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<u>L4</u>	(code or (identification near2 code) or pin) same ((biometric or fingerprint or finger-print) near6 position\$3) same authentic\$6 same (compar\$6 or collat\$3 or match\$3)	4	<u>L4</u>
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<u>L6</u>	((fingerprint or biometric) near5 (identification code or pin)) same (computer or mobile or cellular or portable)	63	<u>L6</u>
<u>L7</u>	L6 same position	0	<u>L7</u>
<u>L8</u>	l2 same pin	8	<u>L8</u>
<u>L9</u>	relative position\$3 with fingerprint\$3L8	0	<u>L9</u>
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<u>L2</u>	L1 same (match\$3 or compar\$6 or collat\$4)	39	<u>L2</u>
<u>L3</u>	L2 same (database or stored or prestored or pre-stord)	30	<u>L3</u>
<u>L4</u>	L3 same (section or area or region)	2	<u>L4</u>
<u>L5</u>	L2 same position	0	<u>L5</u>
<u>L6</u>	L2 and relative position\$3	3	<u>L6</u>
<u>L7</u>	(mobile or cellular) same (identification number or pin) same fingerprint	26	<u>L7</u>
<u>L8</u>	L7 same (authentic\$6 or verif\$7)	15	<u>L8</u>
<u>L9</u>	L8 same (position\$3 or location)	5	<u>L9</u>
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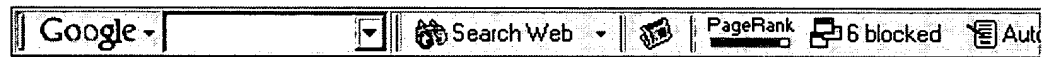
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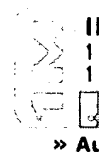
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1 Dynamic Behavior Analysis in Compressed Fingerprint Videos

Dorai, C.; Ratha, N.K.; Bolle, R.M.;

Circuits and Systems for Video Technology, IEEE Transactions on , Volume:
14 , Issue: 1 , Jan. 2004
Pages:58 - 73

[\[Abstract\]](#) [\[PDF Full-Text \(1448 KB\)\]](#) **IEEE JNL**

2 Visual identification by signature tracking

Munich, M.E.; Perona, P.;

Pattern Analysis and Machine Intelligence, IEEE Transactions on , Volume:
25 , Issue: 2 , Feb. 2003
Pages:200 - 217

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3 Personal locator services emerge

Koshima, H.; Hoshen, J.;

Spectrum, IEEE , Volume: 37 , Issue: 2 , Feb. 2000
Pages:41 - 48

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... Their **relative** placement on the finger is determined ... Evaluation Results of the **Fingerprint**

Verification Competition ... the camera in the proper **position** and focus ...

www.prip.tuwien.ac.at/Teaching/SS/EFMEN/

EFME04_Biometric_Identification.pdf - [Similar pages](#)

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... especially for recognizing or **authenticating** individuals. ... is advancing rapidly, the

relative position of different ... use either iris or **fingerprint** scanning to ...

www.ncsconline.org/WC/Publications/KIS_SciEvd_Trends02_Pub.pdf - [Similar pages](#)

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... has not been stolen, by **authenticating** the call ... The **fingerprint** algorithm typically

splits the scanned ... of certain features and their **position relative** to each ...

www.gare.co.uk/technology_watch/smart.htm - 27k - [Cached](#) - [Similar pages](#)

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... transmission errors would not prevent **authenticating** either pieces ... words, we will

sign the **fingerprint** of the ... Finally, to verify the **relative position** of two ...

www.geocities.com/marcjoye/papers/camera97.pdf - [Similar pages](#)

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... pressure can change but the **relative** changes remain ... ring finger and the vertical

position of the ... Existing **fingerprint** databases (compiled by NIST, Cogent, FVC ...

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... The emphasis is put on **fingerprint**-based methods. ... processus automatisé, il est primordial qu'elle se base sur des paramètres d'**identification** infaillibles ...

www.cs.mcgill.ca/~crepeau/PDF/memoire-mounina.pdf - [Similar pages](#)

[Computers Today, April 1-15, PC User; Storm on a Chip](#)

... is hard-wired in the "ON" **position** and has ... debate also leads us to the **relative** value of ... But until biometric security like **fingerprint identification** is widely ...

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... For example the National Automated **Fingerprint Identification** System has no ... will be faced with the **position** that images ... is likely to be low **relative** to the ...
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... Scheuermann Static Methodes: **Fingerprint** Static Methodes: **Fingerprint** ... of the face
Example: eye-**position** and distance ... curvatures and their **relative** location in ...
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... the skin's surface or to the **positioning** of the ... hands (or fingers) and analyze the **relative** shapes, lengths ... DE3D F8B5 06E4 A169 4E46 Key **fingerprint** = AF19 FA27 ...
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... 134 of the Uniform **Code** of Military ... THE WEB: IDENTIFYING AND **AUTHENTICATING** LEARNERS

Introduction ... biometric measures (eg, **fingerprint identification** and iris ...
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... But pressure, **position**, dryness and dirt can make ... Publishers) - "Introduces the **relative**

biometric technologies ... Biometric Techniques in **Fingerprint** and Face ...
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... This system uses the **position** of the pores on the ... the minutiae data on the label to his/her **fingerprint**. ... tracking of the reader as the **relative** orientation of ...
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... technology's use in identifying and **authenticating** people is ... advances usually involve retina scans, face **identification** and **fingerprint** scanning to ...
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... 44 3.6.3 **Authenticating** the information recorded ... will use (and possibly misuse) this **identification** feature ... will explain more precisely our **position** and reasons ...
theory.lcs.mit.edu/~cis/theses/nguyentl-masters.pdf - [Similar pages](#)

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... 6 Arizona Administrative **Code** Department of Economic Security - Developmental Disabilities 25. ... for the achievement of func- tional body **position** or proper ...
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... necessitated other means of **authenticating** using apart ... thermo-grams • Finger print **identification** systems • Voice ... you are (your **fingerprint**, retina scan or ...
www.araburban.org/eGov/english/EnglishPDF/09.PDF - [Similar pages](#)

[New York State Banking Department Mortgage Bankers Application](#)

... accordance with AICPA Statement of **Position** 76-2 ... If payment for **fingerprint** processing

is not received ... The following listing **relative** to such background reports ...

www.banking.state.ny.us/mbinstsh.htm - 26k - [Cached](#) - [Similar pages](#)

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... stored on a template at their **relative** coordinates (see ... size will move to the same **position** in the ... as a biometric include a genetic **fingerprint** obtained from ...

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... Finger pressure, **position**, surface oils, and dryness among ... based authentication due to the **relative** ease of ... more discriminating method than **fingerprint** or face ...

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... The argument for this **position** is stated in the letter from Citibank that ... in whole

or in part with present intent to **identify** the **authenticating** party, or ...

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... March 21, 1997 Draft UNIFORM COMMERCIAL CODE ARTICLE 2B ... a limited discussion of the

relative relationship between a ... where the goal is to **identify** a marketplace ...

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... and is essentially a 'digital **fingerprint**' of the ... that stay in a constant **position** **relative** to the ... system for the purpose of **authenticating** or otherwise ...

www.austrac.gov.au/text/publications/rgec/3/pdf/glossary.pdf - [Similar pages](#)

[5325536 Linking microprocessor interrupts arranged by processing ...](#)

... reflective surface 382/8 5325442 **Fingerprint** sensing device ... an image-bearing member using **relative** states 355 ... intensity of light and **position** detecting element ...

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... systems have achieved a more mainstream **position** as a ... July 2 0 0 1 9 **Fingerprint** Recognition.

The process of **authenticating** people based on their fingerprints ...

developer.novell.com/research/appnotes/2001/july/01/a010701.pdf - [Similar pages](#)

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... have achieved a more mainstream **position** as a ... a coarse estimate of the **relative** performance

of unrelated biometric systems, eg comparing **fingerprint** with voice ...

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[Trust In Cyberspace, Chapter 4, Nat'l Academy Press, 1999](#)

... products will be obsolete (**relative** to their ... But **positioning** an authentication service at the network ... computers come equipped with **fingerprint**-scanning hardware ...

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... contract because of its leading **position** within the ... with Europe's official immigration **fingerprint** database before ... also acknowledged that the **relative** lack of ...

www.cio-dpi.gc.ca/pki-icp/pki-in-practice/efforts/2002-12/scan-analyse_e.rtf - [Similar pages](#)

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... by the growth of economic activity **relative** to our ... in the equivalent legal and practical **position** whether receiving ... a database that is accessed by **fingerprint**. ...

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... mid scan, because only the **relative** order of ... detects drop-outs in pulse **position** modulated (PPM ... 5613712 Magnetic **fingerprint** for secure document authentication ...

www.firstprincipals.com/Kodak1PList.PDF - [Similar pages](#)

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Date: Mon, 27 Jan 97 16:03:28 EST Errors-To: Comp-privacy Error ...

... Key **fingerprint** 95 F4 D3 94 66 BA 92 4E 06 ... that it can't handle (like a **relative** path to a ... briefs on Tuesday in support of the government's **position**: Enough is ... [www.cs.uwm.edu/~levine/comp-privacy/volume10/V10%23004](#) - 44k - [Cached](#) - [Similar pages](#)

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... for networks due to the **relative** ease of ... application systems and agencies and **position** the State ... **Authenticating** users is the basis for providing accountability ... [gita.state.az.us/enterprise_architecture/NEW/Security_Arch/AZ%20Target%20Security%20Architecture.doc](#) - [Similar pages](#)

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... realise that objectives and their **relative** importance are ... of certain technologies, eg **fingerprint** biometrics, hand ... one places the server at **Position** 3b, behind ... [www.chi-publishing.com/portal/backissues/pdfs/ISB_2000/ISB0510/ISB0510GT.pdf](#) - [Similar pages](#)

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... message and is essentially a 'digital **fingerprint**' of the ... that stay in a constant **position relative** to the Earth ... for the purpose of **authenticating** or otherwise ... [www.austrac.gov.au/text/publications/rgec/1/html/glossary.html](#) - 101k - [Cached](#) - [Similar pages](#)
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... testimony from experts on global **positioning** system technology ... of crucial minutiae in a **fingerprint**, for example ... of companies is growing **relative** to management ... [arkfeld.blogs.com/](#) - 59k - [Cached](#) - [Similar pages](#)

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... clumsiness is no doubt due to the **relative** newness of ... than name, and then confirm

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the key **fingerprint** by a ... by more than formal processes; the **position** of the ...
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... algorithms for J2SSH with **relative** ease due ... AllowHost HostName="Firestar" **Fingerprint**="1024:

69 ... philosophical, ethical or political **position** regarding them. ...

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... the industry is in the best **position** to determine ... of authentication technologies
is
the **relative** complexity of ... number that serves as a **fingerprint** for only ...
www.fda.gov/ohrms/dockets/dailys/03/dec03/120303/03N-0361-emc-000038-01.doc - [Similar pages](#)

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position, status, actions ... eg facial features, signature, **fingerprint**); or; ...
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... Job Family **Position** Classification Standard Administrative Work in ... directly reflect the current **relative** financial health ... Key **fingerprint** = AF19 FA27 2F94 998D ...
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... looks at intrinsic characteristics of that person, such as their **fingerprint**, ie what they are. In the physical world, the most common **identification** method is ...
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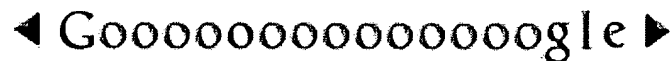
... T 3 D 8 1 1 Introduction 1.1 **Positioning** Security is ... it must be sure the person **authenticating** physically is ... of an individual such as the **fingerprint**, hand and ...
https://doc.telin.nl/dscgi/ds.py/Get/ File-23314/VH_authenticatie.pdf - [Similar pages](#)

SSP SOLUTIONS INC (Form: 10-K/A, Received: 09/16/2003 06:05:49)
... and any required financing activities **relative** to the ... With its embedded **fingerprint** verification system, our ... biometric and global **positioning** satellite designs ...
secfilings.nasdaq.com/edgar_conv_html%2F2003%2F09%2F16%2F0001019687-03-001898.html - 101k -
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... The **position** that the contrary is true is mostly ... For example, a signatory's **fingerprint** is required ... the potential revenue attributable to PKI **relative** to its ...
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[PPT] [Slide 1](#)

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... R: **Relative position** of delta with respect to the symmetry axis. ... Large **Fingerprint** Databases. ... Released cartridge cases: Have marks from firing **pin**. ...

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... the use of passwords or **PIN** numbers alone ... rotation, and plasticity For **fingerprint** authentication, a ... causes a variation in the **relative position** and orientation ...

www.biometrics.org/REPORTS/SPIE94pore.ps - [Similar pages](#)

[United States Patent Application: 0010007592](#)

... A sequence code is formed by the **relative** spatial order or **position** of the ... At least one **fingerprint** is entered sequentially for a plurality of times. ...

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[PDF] [Fingerprint Minutiae: A Constructive Definition](#)

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... these points could be defined by **relative** heights ... of a minutia and give a sub-pixel **position** of the ... minutiae can be annotated consistently by **fingerprint** experts ...

www.research.ibm.com/ecvg/pubs/aws-constructive.pdf - [Similar pages](#)

[Network Security 1998: Biometric identification](#)

... password used with computer login or **PIN** code to ... The **relative position** of minutiae is used for comparison, and ... 7]. A typical live-scan **fingerprint** will contain ...

www.tml.hut.fi/Opinnot/Tik-110.501/1998/papers/12biometric/biometric.htm - 45k - [Cached](#) - [Similar pages](#)

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... the minutiae points and records their **position relative** to a ... Also because we are using the **fingerprint** data in a 1 to 1 ... ISO/IEC 7816-2:1999 **Position** of Module ...

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Page 1. "Acceptance Threshold's Adaptability in **Fingerprint-Based** Authentication Methods" By Mounina G ... The emphasis is put on **fingerprint-based** methods. ...

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... unit thickness, thinness and **relative** pore location ... up the consequences that the **position** of positive ... **Fingerprint** experts persist that fingerprints offer the ...

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[Trell Bioinformatica UPF. Global Alignment Algorithm Applied to ...](#)

... may be classified according to their **position relative** to the ... pairs according to the

exon **fingerprint** comparison ... We are interested to **pin** point those variations ...

genome.imim.es/courses/BioinformaticaUPF/ Ttreballs/programming/finex/ - 10k - [Cached](#) - [Similar pages](#)

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... of the eyes, nose and mouth **relative** to one ... This requirement for precise **positioning** of the **fingerprint** ... In traditional law enforcement a **fingerprint** is given ...

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SAKO Security Corner

... contains at least as much individual data as a **fingerprint**, and it is ... of the mouth,
 shape of the nose and the **position** of major features **relative** to each ...
www.rjagroup.com/sako/security_corner/harizan_STD_0902.htm - 27k - [Cached](#) - [Similar pages](#)

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webhostingtalk.nl Archief - RE: Hacking USB Thumbdrives, Thumprint ...

... on what are called minutae, which are **relative** locations where ... **Fingerprint** data is difficult to hash since the ... more or = less white-space or skewed **position**. ...
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[PDF] Volume 32, Number 1 JUNE, 2002 Distortion Versus Dissimilarity in ...

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... people who have helped me in my **position**: Duane Chris ... 2. Olsen R., Scotts **Fingerprint** Mechanics, Charles Thomas, Springfield, IL ... Lapel **Pin** is optional for \$4.00. ...
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... **Comparing** all biometric verification possibilities, **fingerprint** scanners are ... facility might have a **fingerprint** scan combined ... a smart- card and a **PIN**-code to ...
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... be in alignment except for variations in **position** due to ... at an angle which differs from the **fingerprint** used to ... Once the **relative** angle of rotation between the ...
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... skin's surface or to the **positioning** of the ... or fingers) and analyze the **relative** shapes, lengths ... Similar to **fingerprint** recognition, palm biometrics focuses on ...
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... Consider the problem of **comparing** two different ... pertinent information from the **fingerprint** and store ... points, knowing the **relative position**, orientation, and ...
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... **Relative Position**: Strong Medium Weak Figure 3: Comparison of ... more than 10 Kbytes get the strongest **position**. ... s biometric information (eg, **fingerprint**) on the ...

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... **Relative Position**: Strong Medium Weak Figure 3: Comparison of ... either by using a unique **PIN** for the ... owner's biometric information (eg, **fingerprint**) on the chip ...

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JEB -- Helversen et al. 206 (6): 1025

... by a long, very thin insect **pin** or a ... constituted the pattern of the echo **fingerprint**, we measured ... while taking into account their own **position relative** to the ...

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... conditions and were rotated **relative** to each ... 16. D. Casasent, D. Psaltis, **Position**, rotation and ... Optical processor for **fingerprint** identification, Proceedings ...
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... the **position** of the wiper element **relative** to the ... Register and determine the default power up tap **position**. ... codes do not usually contain the **pin**/lead count, so ...
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... But pressure, **position**, dryness and dirt can make ... systems to biometric **fingerprint** recognition in ... Publishers) - "Introduces the **relative** biometric technologies ...
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... Shouldn't identify that user's **position** or **relative** importance in an ... Something you are, such as **fingerprint**, voice, retina, or iris characteristics. ...

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... and worm spur gear were in a new **relative position**. ... arm back to its original **position** repeats the ... ultimate in lint, dust and **fingerprint** contamination control. ...

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... system (for example the image of a **fingerprint**). ... one-to-a-few process involves **comparing** a submitted ... **PIN** (Personal Identification Number) – A security method ...

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... based on the role or **position** that the ... system (for example the image of a **fingerprint**). ... 5.40 **PIN** (Personal Identification Number) – A security method whereby ...

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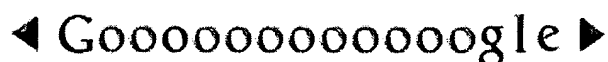
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... 2 Dew point is plotted instead of **relative** humidity ... Window N Figure 3. **Positioning** of systems in test laboratory ... iris and hand images than for **fingerprint** images ...

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